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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/644,860	08/21/2003		Kenzo Kai	740145-269	6306
22204	7590	12/21/2005		EXAM	INER
NIXON PEABODY, LLP			RAABE, CHRISTOPHER M		
	10/644,860 08/21/2003 22204 7590 12/21/2005	·	ART UNIT	PAPER NUMBER	
4				2879	

DATE MAILED: 12/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
	10/644,860	KAI ET AL.					
Office Action Summary	Examiner	Art Unit					
	Christopher M. Raabe	2879					
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wit	h the correspondence address					
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNIC FR 1.136(a). In no event, however, may a re n. eriod will apply and will expire SIX (6) MONT statute, cause the application to become ABA	CATION. sply be timely filed IHS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on _							
2a)⊠ This action is FINAL . 2b)□	This action is FINAL . 2b) This action is non-final.						
,—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
closed in accordance with the practice und	iel Ex parle Quayle, 1955 C.D.	11, 433 O.G. 213.					
Disposition of Claims							
,	☑ Claim(s) <u>1-10</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
·	☐ Claim(s) 1-10 is/are rejected.						
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction a	nd/or election requirement.						
Application Papers	•						
9) The specification is objected to by the Example 1	miner						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the co							
11)☐ The oath or declaration is objected to by th	e Examiner. Note the attached	Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) ☐ Acknowledgment is made of a claim for for	eign priority under 35 U.S.C. §	119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:		, , , , , , , , , , , , , , , , , , , ,					
1. Certified copies of the priority docur	nents have been received.						
2. Certified copies of the priority docur	nents have been received in Ap	pplication No					
3. Copies of the certified copies of the	•	received in this National Stage					
application from the International Bu							
* See the attached detailed Office action for a	ilst of the certified copies not i	receivea.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	·	dummary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-944 3) Information Disclosure Statement(s) (PTO-1449 or PTO/S	· · · · · · · · · · · · · · · · · · ·	s)/Mail Date nformal Patent Application (PTO-152)					
Paper No(s)/Mail Date	6) Other:	· · · · ·					

DETAILED ACTION

1. Amendment filed October 17, 2005 has been entered and acknowledged by the examiner.

2. Applicant's arguments with respect to claims 1-10 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

2. Claims 1,3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Notelteirs (USPN 3991337), in view of Allen (USPN 3248251).

With regard to claim 1,

NoteIteirs discloses a foil seal lamp in which an end of a glass bulb is provided with a seal area, and which comprises: a metal foil of molybdenum which is placed in the seal area, and a molybdenum outer lead, which has a first end connected to the metal foil and a second end that extend out of the bulb (column 1, lines 1-8), wherein a protective coating is provided on the surfaces of both the metal foil and the outer lead in the seal area (column 1, lines 21-22).

Notelteirs does not disclose the protective coating to be of crystalline molybdate.

Allen does do disclose a protective coating of primarily crystalline molybdate (column 2, lines 25-40 and column 8, line 45 – column 9, line 25).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the crystalline molybdate disclosed by Allen into the foil seal lamp of Notelteirs in order to protect the metal surfaces against excessive scaling, oxidation and corrosion.

With regard to claim 3,

Notelteirs disclose the foil seal lamp, wherein a protective coating is also provided on an area of the outer lead which projects from the seal area (column 1, lines 21-22).

As in claim 1, Notelteirs does not disclose the protective coating to be of crystalline molybdate, whereas Allen does.

Utilizing the reasoning in the rejection of claim 1, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the crystalline molybdate disclosed by Allen into the foil seal lamp of Notelteirs.

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3. Claims 2,4-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Notelteirs in view of Allen as applied to claims 1,3 above, and further in view of Gotoh et al. (U.S. Patent 6204454).

With regard to claim 2,

Notelteirs discloses the foil seal lamp.

Notelteirs does not disclose a foil seal lamp wherein the surface of the outer lead in the seal areas is rough.

Gotoh et al. do disclose a surface to which a coating is to be applied as being rough (column 1, lines 40-44).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the rough surface of Gotoh et al. into the foil seal lamp of Notelteirs in order to more firmly fix the protective coating to the lead.

With regard to claim 4,

Notelteirs discloses the foil seal lamp.

Notelteirs does not disclose a foil seal lamp wherein at least the area of the outer lead which projects from the seal area is rough.

As in the rejection of claim 2, Gotoh et al. do disclose a surface to which a coating is to be applied as being rough.

Utilizing the reasoning in the rejection of claim 2, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the rough surface of Gotoh et al. into the foil seal lamp of Notelteirs.

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With regard to claim 5,

Notelteirs discloses the foil seal lamp.

Notelteirs does not disclose a foil seal lamp wherein the surface roughness is from 0.20 to 0.51 µm. As in the rejection of claim 2, Gotoh et al. do disclose a surface to which a coating is to be applied as being rough.

Utilizing the reasoning in the rejection of claim 2, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the rough surface of Gotoh et al. into the foil seal lamp of Notelteirs.

With regard to claim 6,

Notelteirs discloses the foil seal lamp.

Notelteirs does not disclose a foil seal lamp wherein the surface roughness is from 0.20 to 0.51 μ m. As in the rejection of claim 2, Gotoh et al. do disclose a surface to which a coating is to be applied as being rough.

Utilizing the reasoning in the rejection of claim 2, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the rough surface of Gotoh et al. into the foil seal lamp of Notelteirs.

4. Claims 7-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Notelteirs in view of Allen as applied to claim 1 above, and further in view of Goettler (U.S. Patent 6218324).

With regard to claim 7,

Notelteirs discloses the foil seal lamp.

Notelteirs does not disclose molybdate having one of a wolframite or a scheelite crystal structure. Goettler does disclose molybdate having one of a wolframite or a scheelite crystal structure (Table 2).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the crystal structure disclosed by Goettler into the foil seal lamp of Notelteirs in order to protect the leads from a corrosive environment (column 9, lines 34-40)

With regard to claim 8,

Notelteirs discloses the foil seal lamp.

Notelteirs does not disclose an element in addition to oxygen and molybdenum of the crystalline molybdate being selected from at least one of the elements of the group consisting of magnesium, calcium, strontium, barium, manganese, cobalt, nickel, titanium, scandium, yttrium, lanthanum, cerium, praseodymium, neodymium, samarium, europium, gadolinium, terbium, dysprosium, holmium, erbium, thulium, ytterbium, and lutetium.

As in the rejection of claim 7, Goettler discloses an element in addition to oxygen and molybdenum of the crystalline molybdate being selected from at least one of the elements of the group consisting of magnesium, calcium, strontium, barium, manganese, cobalt, nickel, titanium, scandium, yttrium, lanthanum, cerium, praseodymium, neodymium, samarium, europium, gadolinium, terbium, dysprosium, holmium, erbium, thulium, ytterbium, and lutetium.

Utilizing the reasoning in the rejection of claim 7, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the composition of the molybdate disclosed by Goettler into the foil seal lamp of Notelteirs.

With regard to claim 9,

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Notelteirs discloses the foil seal lamp.

Notelteirs does not disclose the use of one of the molybdates MnMoO₄, MgMoO₄, SrMoO₄, and (Ni--Mn)MoO₄.

As in the rejection of claim 7, Goettler discloses the use of one of the molybdates MnMoO₄, MgMoO₄, SrMoO₄, and (Ni--Mn)MoO₄.

Utilizing the reasoning in the rejection of claim 7, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the composition of the molybdate disclosed by Goettler into the foil seal lamp of Notelteirs.

With regard to claim 10,

Notelteirs discloses the foil seal lamp.

Notelteirs does not disclose the protective coating having a ratio of an x-ray diffraction intensity ratio of the crystalline molybdate to the ratio of the x-ray diffraction intensity of the other produced compounds that is at least 50%.

Goettler does disclose the protective coating having a ratio of an x-ray diffraction intensity ratio of the crystalline molybdate to the ratio of the x-ray diffraction intensity of the other produced compounds that is at least 50% (column 9, lines 34-40, and column 10, lines 20-27 (implies no others present, hence ratio is significantly over 50%)).

Utilizing the reasoning in the rejection of claim 7, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the composition of the molybdate disclosed by Goettler into the foil seal lamp of Notelteirs.

Response to Arguments

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The applicant argues with regard to claim 1 that Allen does not disclose a coating consisting of primarily crystalline molybdate. This argument is now moot in light of the new grounds of rejection, stated above.

The applicant argues with regard to the use of the Gotoh et al. reference that Gotoh et al. constitutes nonanalogous art as a wiring board and not a lamp. However, the examiner asserts that, as the patentability of the applicant's invention rests not on the features of the lamp, but rather on the composition and methods of application of the protective coating (since the use of a protective coating on the leads and foil seal of a lamp was well known at the time of the invention, as disclosed by the applicant and the prior art), any art which utilizes protective coatings for metals and their method of application is considered analogous art.

Similarly, the Goettler reference speaks to the strength, durability and protective nature of particular molybdate compositions and crystal structures, and therefore is considered analogous art, as the claims 7-10 are directed to molybdate compositions and crystal structures.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher M. Raabe whose telephone number is 571-272-8434. The examiner can normally be reached on m-f 7am-3:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on 571-272-2457. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CR

ASHOK PATEL